

# **ABSTRACT**

## **BACKGROUND:**

Identity plays a role in decomposed, mutilated bodies . identification is tough in industrial explosions , Fire accidents, Aeroplane accidents, earth quakes.

## **Aims and objectives:**

To derive stature correlation with hand length, hand breadth, ring finger length, index finger length of both right and left sides of both the male and females. To derive multiple and simple regression formulae for stature estimation using the above mentioned variables.

## **Methods:**

It was a prospective study done in live subjects of medical students of MBBS course from madras medical college from march 2017 to march 2018. The age group included was eighteen years to twenty five years.

## **Results:**

The mean and standard deviation, regression formula was derived for estimation of stature using the right hand length, right hand breadth, left hand length, left hand breath, right index finger, left index finger, right ring finger, left ring finger. All the variables are significant at P value less than 0.005.

## **Conclusion:**

It is concluded that dimensions of hand provides good reliability in estimation of stature. Estimation of stature forms a significant tool used in the partial identification of unidentified body and dismembered remains. The results of the

present study indicates that following eight parameter like right hand length, left hand length, right hand breadth, left hand breadth, right index finger length, left index finger length, right ring finger length, left ring finger length are better predictors of stature in males and females. This study concluded the existence of sexual dimorphism in hand dimensions.

**Keywords:** stature, regression formula, hand length, hand breath, ring finger length, index finger length.